

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/722,903B
Source: IFW16
Date Processed by STIC: 5/16-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10722,903 B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ____ Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ____ Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 ____ Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 ____ Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
- 5 ____ Variable Length Sequence(s) ____ contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ____ PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 ____ Skipped Sequences
 (OLD RULES) Sequence(s) ____ missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 ____ Skipped Sequences
 (NEW RULES) Sequence(s) ____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 ____ Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 ____ Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ____ Use of <220> Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ____ PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ____ Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFW16

RAW SEQUENCE LISTING

DATE: 05/16/2006

PATENT APPLICATION: US/10/722,903B

TIME: 08:13:03

Input Set : A:\Revised Sequence Listing_GTC-53.ST25.txt

Output Set: N:\CRF4\05162006\J722903B.raw

3 <110> APPLICANT: GTC Biotherapeutics, Inc.
 5 <120> TITLE OF INVENTION: Modified Antibodies Stably Produced in Milk and Methods of
 6 Producing Same
 8 <130> FILE REFERENCE: GTC-53
 10 <140> CURRENT APPLICATION NUMBER: 10/722,903B
 11 <141> CURRENT FILING DATE: 2003-11-26
 13 <150> PRIOR APPLICATION NUMBER: US 60/429,606
 14 <151> PRIOR FILING DATE: 2002-11-27
 16 <160> NUMBER OF SEQ ID NOS: 10
 18 <170> SOFTWARE: PatentIn version 3.2
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 61
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 26 <220> FEATURE:
 27 <221> NAME/KEY: misc_feature
 28 <223> OTHER INFORMATION: IgG4 Hinge Region Nucleic Acid
 30 <400> SEQUENCE: 1
 31 tctgcagagt ccaaatatgg tcccccatgc ccatcatgcc caggtaagcc aaccaggcc 60
 33 t 61
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 12
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Homo sapiens
 42 <220> FEATURE:
 43 <221> NAME/KEY: misc_feature
 44 <223> OTHER INFORMATION: IgG4 Hinge Region Amino Acid
 46 <400> SEQUENCE: 2
 48 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
 49 1 5 10
 52 <210> SEQ ID NO: 3
 53 <211> LENGTH: 33
 54 <212> TYPE: DNA
 55 <213> ORGANISM: oligonucleotide
 58 <220> FEATURE:
 59 <221> NAME/KEY: misc_feature
 60 <223> OTHER INFORMATION: S241P Oligo Nucleic Acid
 62 <400> SEQUENCE: 3
 63 ggtcccccat gtcttcctg cccaggtaag cca
 66 <210> SEQ ID NO: 4
 67 <211> LENGTH: 11
 68 <212> TYPE: PRT
 69 <213> ORGANISM: oligonucleotide

Does Not Comply
Corrected Diskette Needed
(pg. 1, 3) 2

See item
#10 on
error
Summary
Sheet.

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DATE: 05/16/2006

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Input Set : A:\Revised Sequence Listing_GTC-53.ST25.txt

Output Set: N:\CRF4\05162006\J722903B.raw

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72 <220> FEATURE:
73 <221> NAME/KEY: misc_feature
74 <223> OTHER INFORMATION: S241P Oligo Amino Acid
76 <400> SEQUENCE: 4
78 Gly Pro Pro Cys Pro Pro Cys Pro Gly Lys Pro
79 1          5          10
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 65
84 <212> TYPE: DNA
85 <213> ORGANISM: Homo sapiens
88 <220> FEATURE:
89 <221> NAME/KEY: misc_feature
90 <223> OTHER INFORMATION: IgG4 Hinge Region Nucleic Acid
92 <400> SEQUENCE: 5
93 cttctctctg cagagtccaa atatggtccc ccatgcccacat catgcccagg tccgccaacc 60
95 caggc 65
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 12
100 <212> TYPE: PRT
101 <213> ORGANISM: Homo sapiens
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <223> OTHER INFORMATION: IgG4 Hinge Region Amino Acid
108 <400> SEQUENCE: 6
110 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
111 1          5          10
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 65
117 <212> TYPE: DNA
118 <213> ORGANISM: Homo sapiens
121 <220> FEATURE:
122 <221> NAME/KEY: misc_feature
123 <223> OTHER INFORMATION: IgG2 Hinge Region Nucleic Acid
125 <400> SEQUENCE: 7
126 cttctctctg cagagcgcaa atgttgtgtc gagggtccac cgtgcccagg tccgccaacc 60
128 caggc 65
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 12
133 <212> TYPE: PRT
134 <213> ORGANISM: Homo sapiens
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <223> OTHER INFORMATION: IgG2 Hinge Region Amino Acid
141 <400> SEQUENCE: 8
143 Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
144 1          5          10
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 33
149 <212> TYPE: DNA

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RAW SEQUENCE LISTING

DATE: 05/16/2006

PATENT APPLICATION: US/10/722,903B

TIME: 08:13:03

Input Set : A:\Revised Sequence Listing_GTC-53.ST25.txt

Output Set: N:\CRF4\05162006\J722903B.raw

150 <213> ORGANISM: oligonucleotide
153 <220> FEATURE:
154 <221> NAME/KEY: misc_feature
155 <223> OTHER INFORMATION: Oligo 2014 Nucleic Acid
157 <400> SEQUENCE: 9
158 gaggagcagt tccagtctac ttaccgagtg gtc
161 <210> SEQ ID NO: 10
162 <211> LENGTH: 11
163 <212> TYPE: PRT
164 <213> ORGANISM: oligonucleotide
167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <223> OTHER INFORMATION: Oligo 2014 Amino Acid
172 <400> SEQUENCE: 10
174 Glu Glu Gln Phe Gln Ser Thr Tyr Arg Val Val
175 1 5 10

Invalid
ResponseInvalid
Response

See item

33

#10 on

error

Summary
Sheet.

VERIFICATION SUMMARY

DATE: 05/16/2006

PATENT APPLICATION: US/10/722,903B

TIME: 08:13:04

Input Set : A:\Revised Sequence Listing_GTC-53.ST25.txt

Output Set: N:\CRF4\05162006\J722903B.raw